



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTR-24-L38-835-RA-TBOX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 19535.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 05-OCT-2016
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-56 LED 22"ARRAYS 2x4'RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS
 [MORE] EVERLINE #D10CC55UNVTZ-C @ 1030mA
 [LUMCAT] PTR-24-L38-835-RA-xxx-xxx
 [LAMPCAT] M10CC840D56N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3763
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	31.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1620	1749	1851
55	1406	1589	1743
65	1238	1529	1762
75	937	1489	1887
85	554	1987	2332

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1420.828	1420.828	1420.828	1420.828	1420.828
5	1413.829	1413.829	1413.829	1414.465	1414.465
10	1389.650	1389.650	1390.923	1393.468	1394.740
15	1321.567	1323.476	1327.294	1333.021	1335.566
20	1295.480	1299.297	1308.842	1317.750	1320.295
25	1169.495	1175.221	1189.220	1201.309	1206.400
30	1079.778	1088.687	1106.503	1126.227	1132.590
35	983.063	995.152	1019.968	1044.146	1054.327
40	881.893	897.164	930.887	960.157	970.973
45	799.812	820.174	863.441	900.346	913.708
50	682.099	703.097	750.818	790.268	806.812
55	563.114	584.747	636.287	682.099	698.006
60	454.309	478.488	529.391	575.839	592.383
65	365.229	391.953	451.127	502.666	519.846
70	264.695	297.146	359.502	412.314	430.766
75	169.252	204.884	269.149	321.325	341.050
80	93.534	138.710	206.157	257.696	275.512
85	33.723	78.263	120.894	138.710	141.892
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	512.87	N.A.	13.60
0-30	1065.22	N.A.	28.30
0-40	1703.38	N.A.	45.30
0-60	2927.75	N.A.	77.80
0-80	3651.51	N.A.	97.00
0-90	3763.03	N.A.	100.00
10-90	3628.78	N.A.	96.40
20-40	1190.51	N.A.	31.60
20-50	1846.52	N.A.	49.10
40-70	1663.99	N.A.	44.20
60-80	723.77	N.A.	19.20
70-80	284.14	N.A.	7.60
80-90	111.52	N.A.	3.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3763.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.26
10-20	378.62
20-30	552.35
30-40	638.16
40-50	656.00
50-60	568.36
60-70	439.62
70-80	284.14
80-90	111.52
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

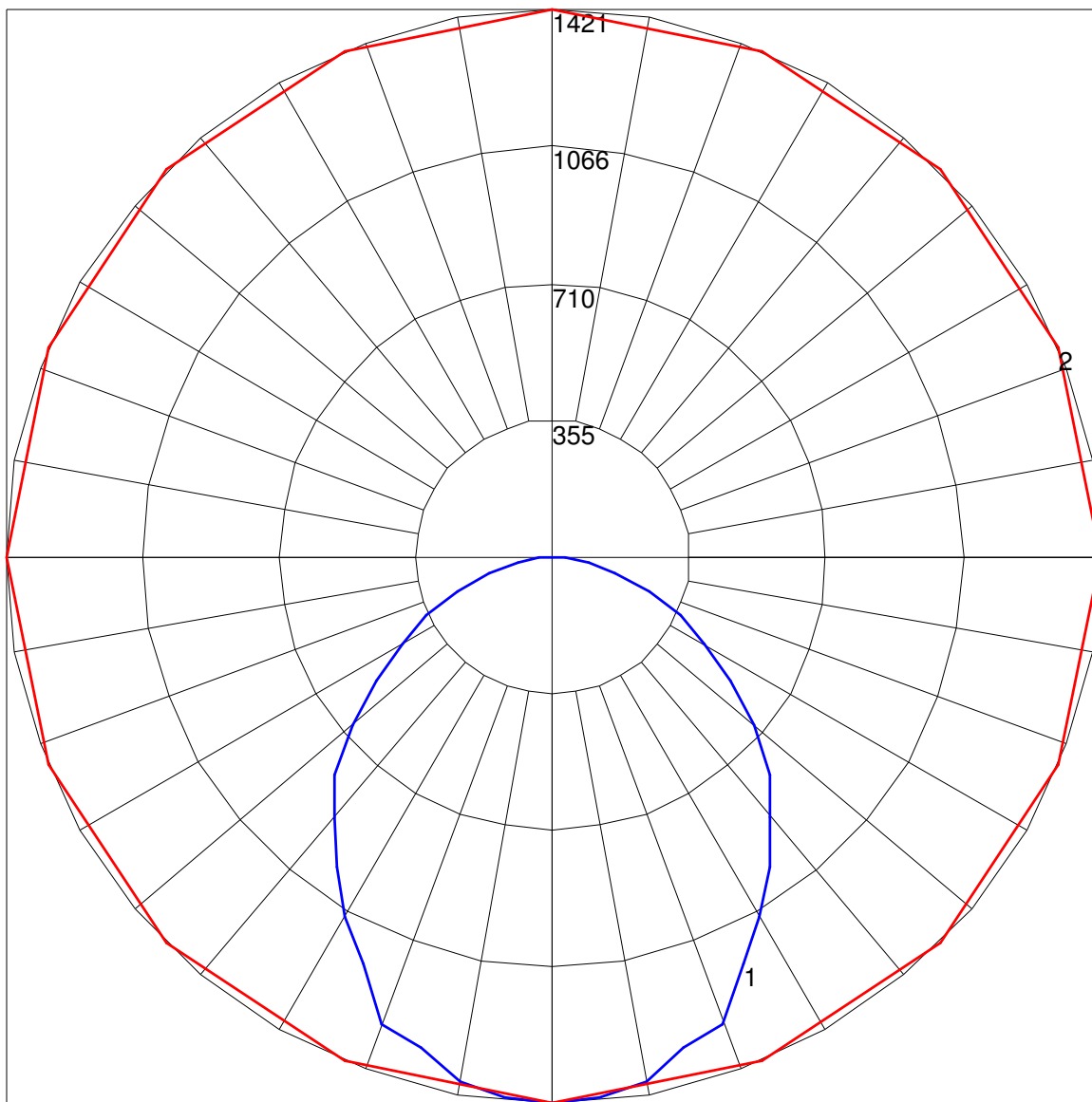
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

POLAR GRAPH



Maximum Candela = 1420.828 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)